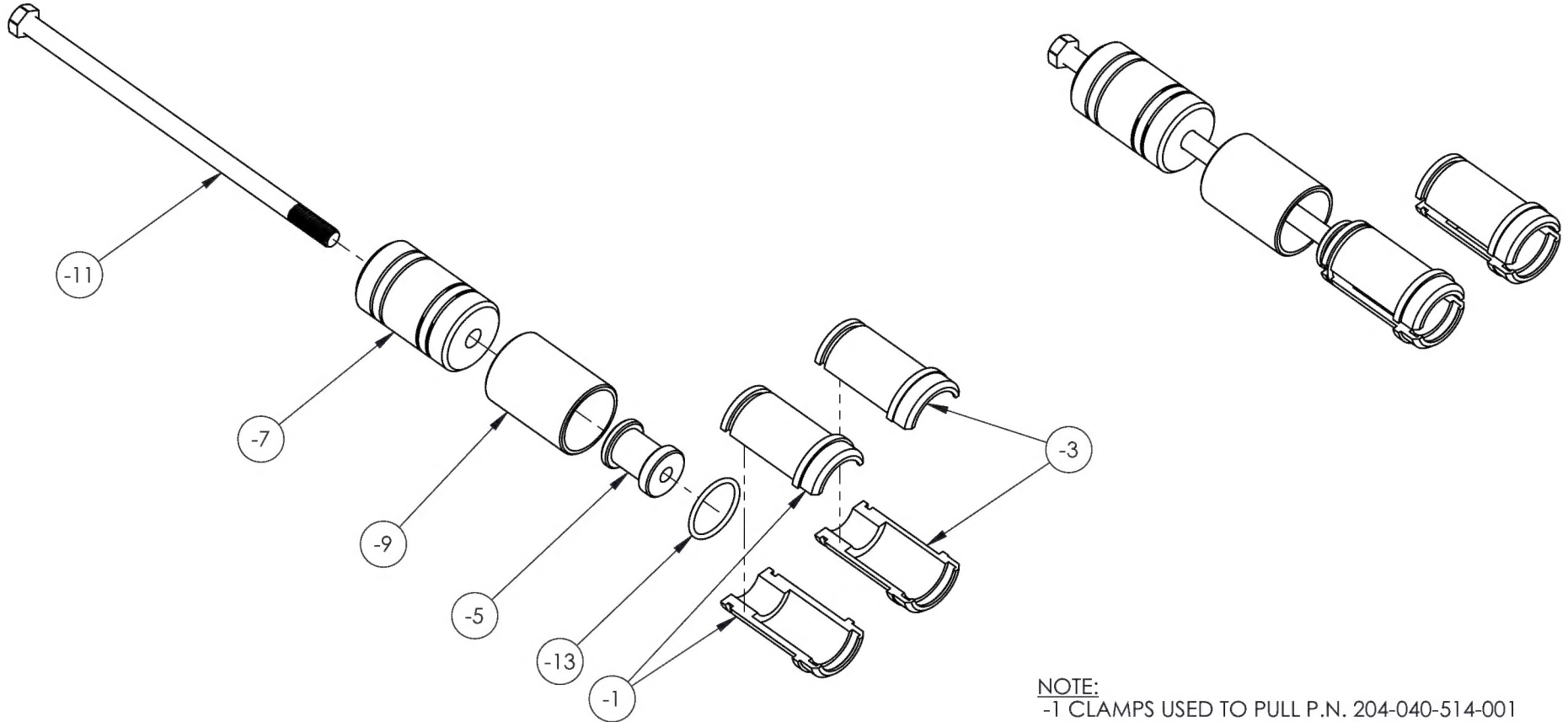


This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	UPDATED TO NEW STANDARD. -1, -3, -5, -7 CH'D MAT'L WAS 1018 IS 1018/1020 CR. -1, -3, -5, -7, -9 ADDED FINISH SPEC. -1, -3 ADDED ENGRAVE NOTE. -7 CH'D NOTE WAS ENGRAVE P/N, S/N, & "MADE IN USA" IS ENGRAVE T/N, S/N, & "MADE IN USA".	8/15/2016	DEW	SM



NOTE:
-1 CLAMPS USED TO PULL P.N. 204-040-514-001
-3 CLAMPS USED TO PULL P.N. 412-340-416-101

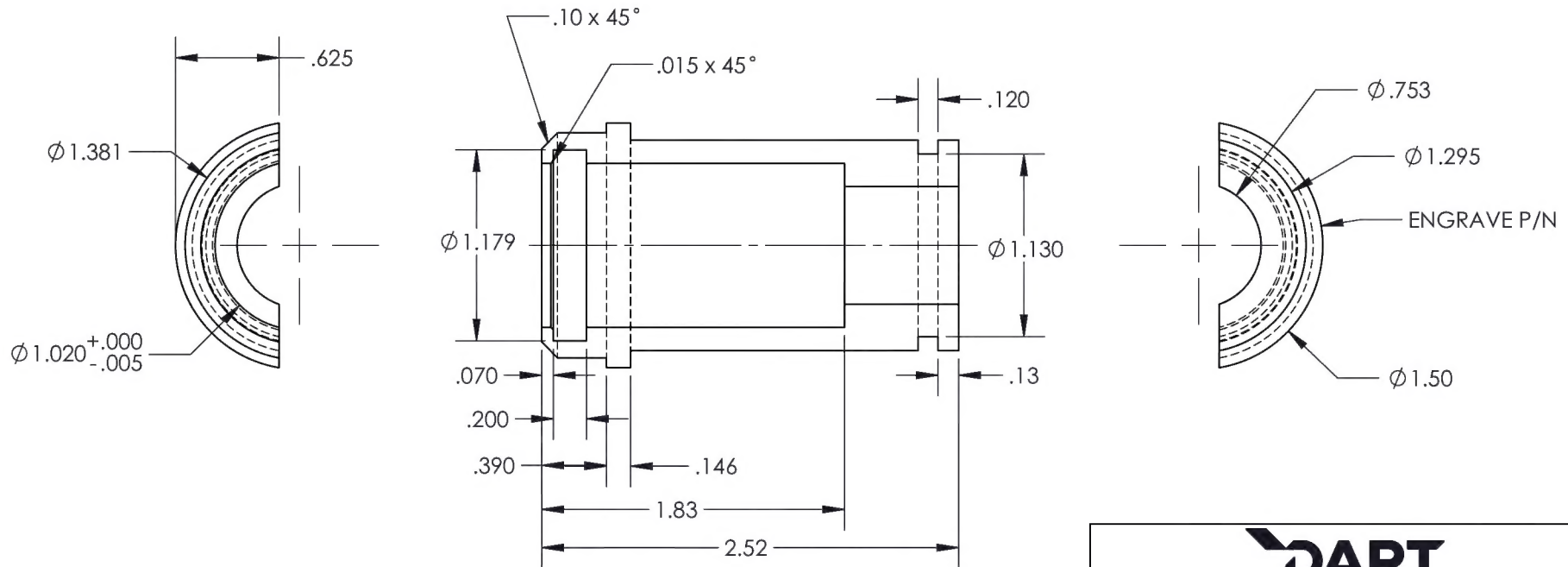


TITLE		SIGHT GLASS PULLER	
DWG NO.		RBT18552	
REV		2	
MAT'L		UNLESS OTHERWISE SPECIFIED	
HEAT TREAT		DIMENSIONS ARE IN INCHES	
FINISH		.XXX ± .005 FRACTIONS ± 1/8	
SPEC		.XX ± .01 ANGLES ± .5°	
DRAWN BY: GILBERT		.X ± .1 SURFACES = 125°	
CHECKED: DUERFELDT		1. BREAK ALL SHARP EDGES	
OPPS APPR: ANDERSON		.015 x 45° OR .015R	
QA APPR: LINDSAY		2. DIMENSIONAL LIMITS APPLY AFTER PLATING	
APPROVED: MACKOVJAK		3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
SCALE 1:3		DATE 11/12/2011	
DATE 11/12/2011		SHEET 1 OF 6	

ASSY QTY	ASSY QTY	B/O	Part #	UNIT QTY	Description	Material	B/O INFORMATION OR SPECIFICATIONS	PG.
			-1	2	HALF CLAMP	1018/1020 CR		2
			-3	2	HALF CLAMP	1018/1020 CR		3
			-5	1	SPOOL	1018/1020 CR		4
			-7	1	SLIDE	1018/1020 CR		5
			-9	1	BUSHING	STEEL		6
		B/O	-11	1	BOLT	STEEL	3/8-16 X 8 (MCMASTER-CARR #91247A652)	1
		B/O	-13	1	O-RING	BUNA-N	3/32X Ø1-5/16 OD (MCMASTER-CARR #4198T181)	1
		B/O	-15	1	PISTOL CASE	PLASTIC	#10137	NS

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	-1 ADDED SPEC. ADDED ENGRAVE NOTE. CH'D MAT'L WAS 1018 IS 1018/1020 CR.	8/15/2016	DEW	SM

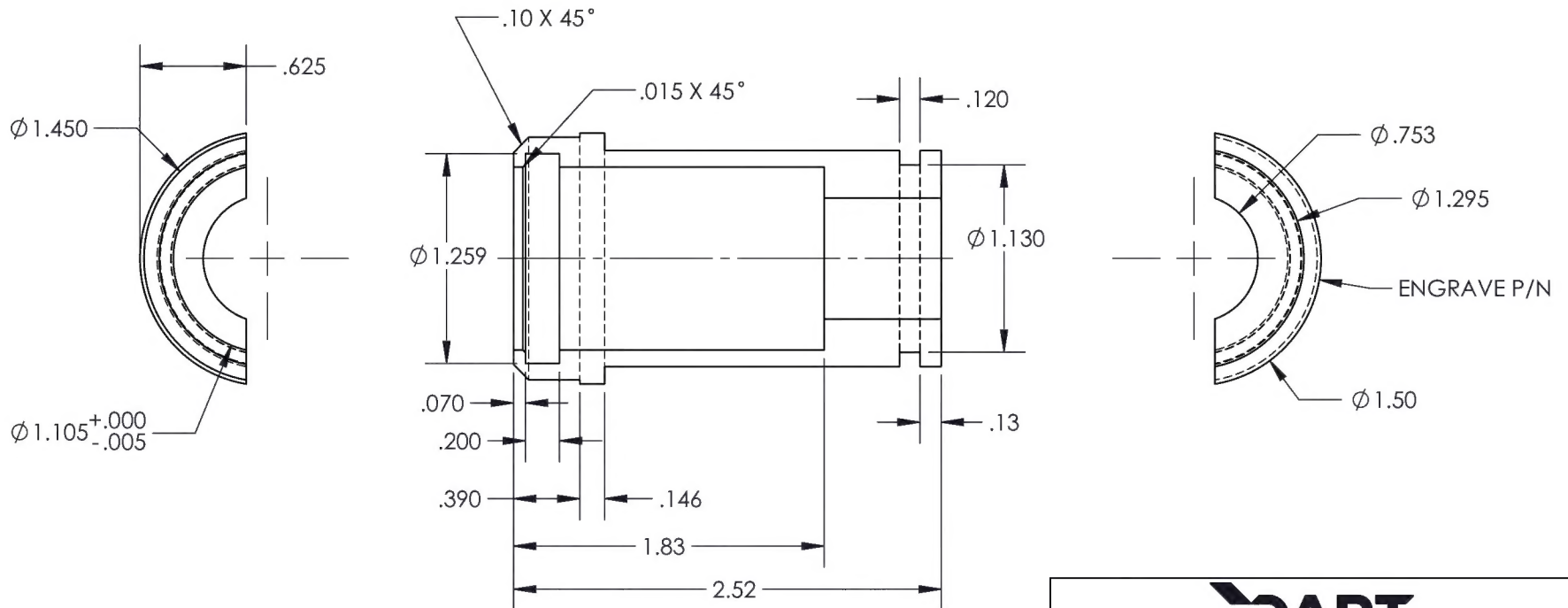


(-1)
HALF CLAMP

DART AEROSPACE	
TITLE SIGHT GLASS PULLER	
DWG NO. RBT18552-1	REV 2
MAT'L 1018/1020 CR HEAT TREAT FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: GILBERT	USED ON MODEL
CHECKED: DUERFELDT	BELL
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 11/12/2011
SHEET 2 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	-3 ADDED SPEC. ADDED ENGRAVE NOTE. CH'D MAT'L WAS 1018 IS 1018/1020 CR.	8/15/2016	DEW	SM

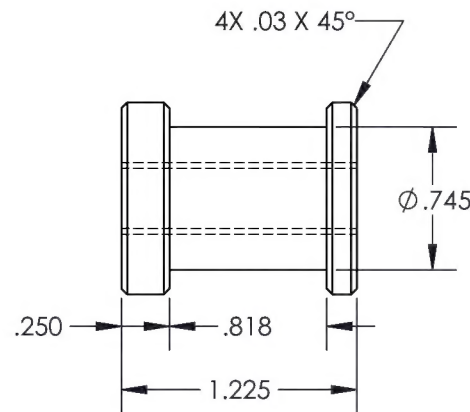
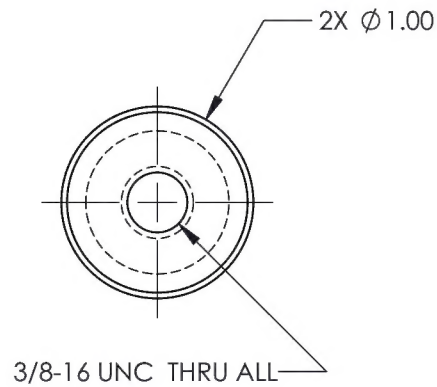
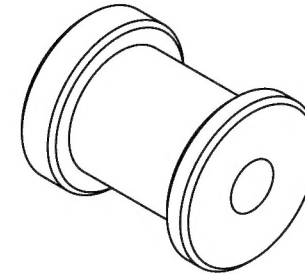


(-3)
HALF CLAMP

DART AEROSPACE	
TITLE SIGHT GLASS PULLER	
DWG NO. RBT18552-3	REV 2
MAT'L 1018/1020 CR	UNLESS OTHERWISE SPECIFIED
HEAT TREAT	DIMENSIONS ARE IN INCHES
FINISH BLACK OXIDE	.XXX ± .005 FRACTIONS ± 1/8
SPEC QMSI-6.2.2, B.O. REV D	.XX ± .01 ANGLES ± 1/8
DRAWN BY: GILBERT	.X ± .1 SURFACES = 125°
CHECKED: DUERFELDT	1. BREAK ALL SHARP EDGES
OPPS APPR: ANDERSON	.015 x 45° OR .015R
QA APPR: LINDSAY	2. DIMENSIONAL LIMITS APPLY AFTER PLATING
APPROVED: MACKOVJAK	3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009
SCALE 1:1	DATE 11/12/2011
USED ON MODEL BELL	
SHEET 3 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	-5 ADDED SPEC. CH'D MAT'L WAS 1018 IS 1018/1020 CR.	8/15/2016	DEW	SM

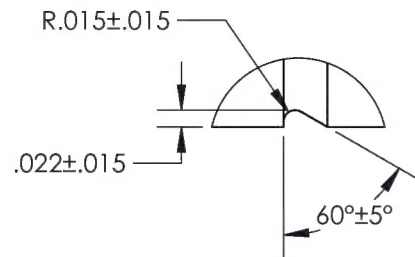
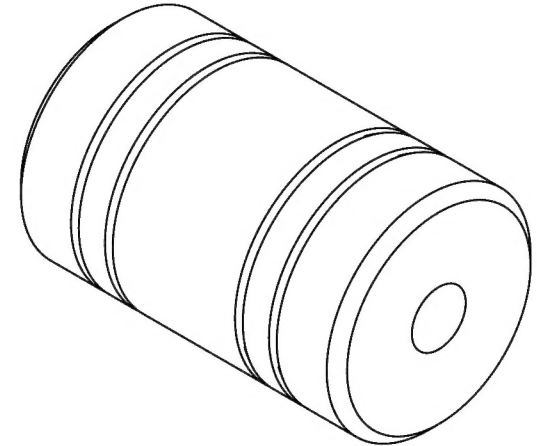
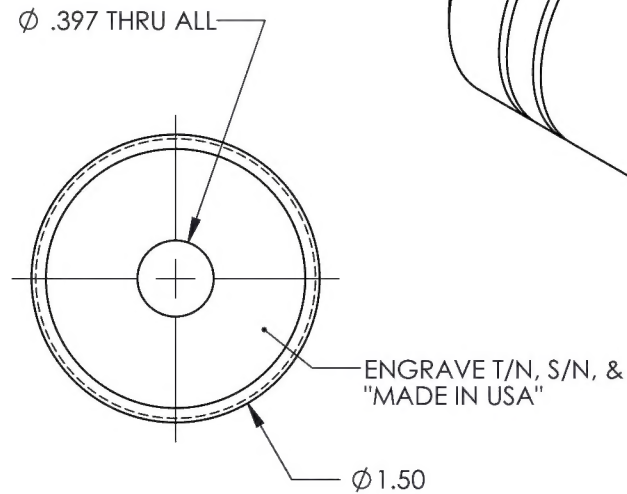
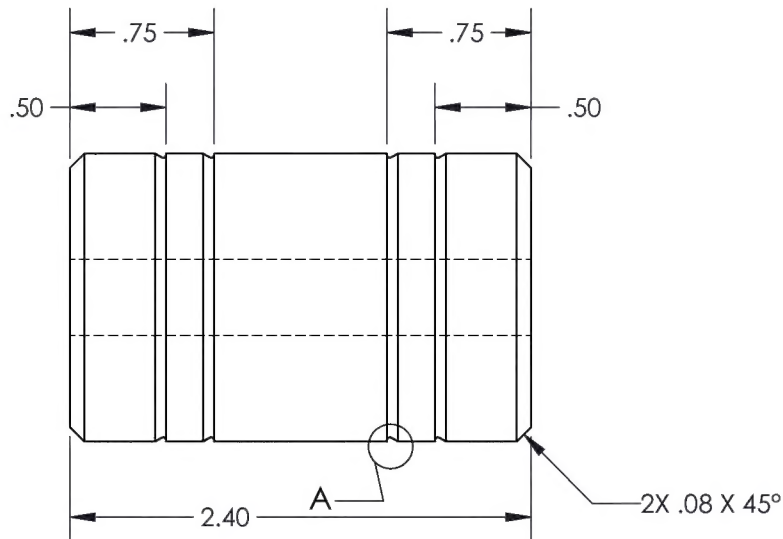


(-5)
SPOOL

DART AEROSPACE	
TITLE SIGHT GLASS PULLER	
DWG NO. RBT18552-5	REV 2
MAT'L 1018/1020 CR HEAT TREAT FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± .5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: GILBERT	USED ON MODEL
CHECKED: DUERFELDT	BELL
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 11/12/2011
SHEET 4 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	-7 CH'D NOTE WAS ENGRAVE P/N, S/N, & "MADE IN USA" IS ENGRAVE T/N, S/N, & "MADE IN USA". ADDED SPEC. CH'D MAT'L WAS 1018 IS 1018/1020 CR.	8/15/2016	DEW	SM



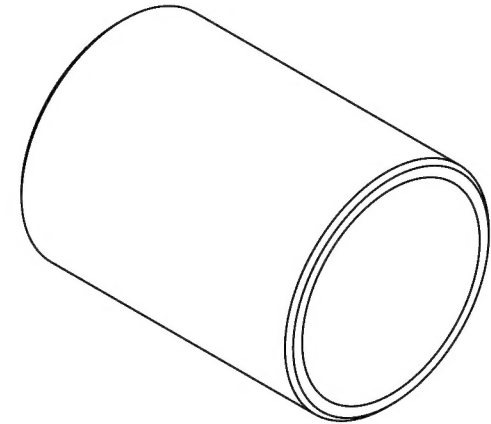
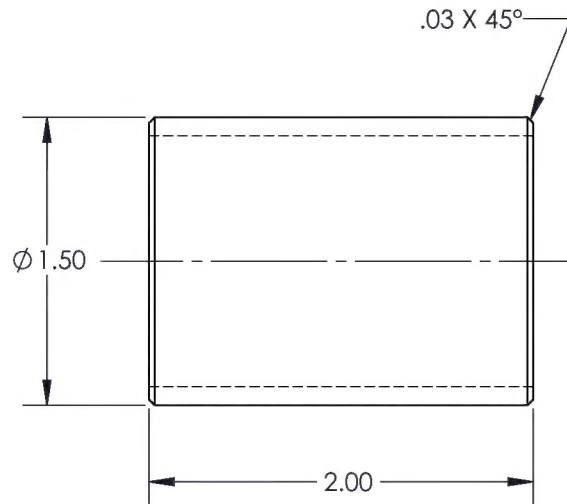
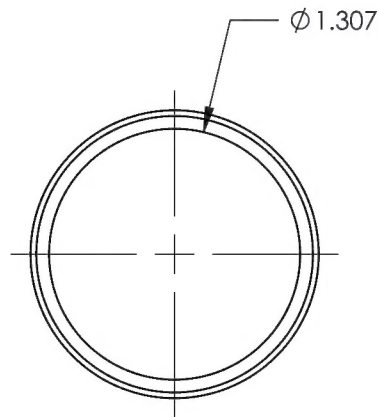
DETAIL A
SCALE 4 : 1

⑦
SLIDE

DART AEROSPACE	
TITLE SIGHT GLASS PULLER	
DWG NO. RBT18552-7	REV 2
MAT'L 1018/1020 CR HEAT TREAT FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: GILBERT	USED ON MODEL
CHECKED: DUERFELDT	BELL
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 11/12/2011
SHEET 5 OF 6	

This drawing, specifications, and concepts contained here in are the sole property of Dart Aerospace, and may not be reproduced or used in any fashion without the prior written permission of Dart Aerospace Eugene, OR.

REVISIONS					
REV	ECR	DESCRIPTION	DATE	INITIAL	APPROVED
2	16-0119	-9 ADDED SPEC.	8/15/2016	DEW	SM



(-9)

BUSHING

DART AEROSPACE	
TITLE SIGHT GLASS PULLER	
DWG NO. RBT18552-9	REV 2
MAT'L STEEL HEAT TREAT FINISH BLACK OXIDE SPEC QMSI-6.2.2, B.O. REV D	
UNLESS OTHERWISE SPECIFIED DIMENSIONS ARE IN INCHES .XXX ± .005 FRACTIONS ± 1/8 .XX ± .01 ANGLES ± 5° .X ± .1 SURFACES = 125°	
1. BREAK ALL SHARP EDGES .015 x 45° OR .015R 2. DIMENSIONAL LIMITS APPLY AFTER PLATING 3. INTERPRET DIM AND TOL PER ASME Y14.5M-2009	
DRAWN BY: GILBERT	USED ON MODEL
CHECKED: DUERFELDT	BELL
OPPS APPR: ANDERSON	
QA APPR: LINDSAY	
APPROVED: MACKOVJAK	
SCALE 1:1	DATE 11/12/2011
SHEET 6 OF 6	